Shooting Stars Are Not Really Shooting Stars At All WHAT

EVENING SKY MAP FOR AUGUST AUGUST MOON PHASES By Prof. Mitchell, S. Alfred of NEW MOON, AUG. 5 FIRST QTR., AUG. 12. FULL MOON AUG. 20 LAST QTR., AUG. 27. Columbia University: EASTERN HORIZON FOR 9PM.15T 7P.M.315 FACE SOUTH AND THE ARROW THROUGH HOLD THE MAP OVER YOUR HEAD-THE TOP THE TWO STARS IN THE BOWL OF THE BIG DIPPER NORTH, AND YOU WILL SEE POINTS TO THE NORTH STAR.
THE STAR AT THE END OF THE THE STARS AND PLANETS JUST AS THEY APPEAR HANDLE OF THE LITTLE DIPPER IN THE HEAVENS SOUTH

HE average person was disap-pointed in the appearance of Hal-ley's comet in that it did not live up to the reputation made for it by the daily press. In reading of the tremen-dous velocity of forty miles per second that it had at one time with respect to the earth, one almost naturally looked to see it move in the heavens like a gigantic sky-rocket, changing its postyet the earth is moving continuously at brought by Peary from Greenland; the nearly half the above velocity. In fact, most comet gazers expected to see an in Oregon in 1962, the third is object nearly as bright as the moon, with a long, brilliant tail resembling a these large objects were not seen to gigantic meteorite or shooting star, fall, the sceientific man has certain sure Though comets fall far below such expectations, they have important connec- bodies came from the sky. tions with meteors and shooting stars; and there is no month in the year quite and there is no month in the year quite
as favorable as August for a study of
these interesting objects. The warm
nights of summer are more comfortable
nights of summer are more comfortable
splits because and
the tiny shooting stars which we
glimpse from the corner of our eye. It nights of summer are more comfortable gilmpse from the corner of our eye. It is rather easy to estimate the number one can take himself out into the fields and throw himself upon the grass, or if and throw himself upon the grass, or if and throw himself upon the grass, or if the country, he can take a pillow should get away from the city lights, with him to the upstairs veranda or to the upstairs teranda or to the upstairs that are seen daily. the roof, and stretched at full length can gaze in comfort at the skies. Then, ful watch were kept, one could ce in the second place, there are more four to eight such bodies hourly. shooting stars in the early part of August each year than there are, except at rare intervals, at any other time.

Who of us is not familiar with the darting rush of light through the sky which we call a shooting star, or in its more splendid forms a meteor or fire-The meteor is generally accompanied by a luminous train of light, which marks out the path of the body, and which at times persists long after the shooting star has disappeared. These paths are more or less curved, seldom exactly : night, and here and there along the path we con see where the di- readily be counted between 10 and 20 rection has suddenly changed. At times this change in direction is accompanied by a violent explosion which at times bodies are grouped together, moving in be heard for miles.

and whether found at the time or hunprized in our museums. When such an object has been observed to fall by many people, it is interesting to note

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BOTH PHONES

how very unsatisfactory nearly all accounts are, the appearance and the

noise being terribly exaggerated.

One of the finest collections of meteorites in the world is at the American Museum of Natural History in New York City. In addition to the Ward-Coonley they have there the largest known me-teorite of thirty-seven and a half tons,

he would se a shooting star. If a careful watch were kept, one could count estimating the area that one could see over the earth, he would be surprised to find that no less than fifteen to tweny millions of shooting stars reach the earth every twenty-four hours.

At times more than the average num ber of shooting stars may be seen, and the earth is then said to experience a meteoric shower. The most noted one was that of November, 1833, with a recurrence of the same shower in 1866.

Though not so numerous as in these two years, there is each year in August quite a shower of meteors, and during the first half of the month, there can every hour. The reason for the showers of '23 and '66 was that millions of small an orbit like a planet or a comet about When these bodies reach the earth, the sun as the center of motion. Each they are called meteorites or aerolites, year in November the earth in its jourabout the sun goes through the dreds of years later, they are highly track of the meteors, but only once in 33 years are the meteors encountered in sufficient numbers to give the fine display of a shower. In other words, it takes them 33 years to revolve about the sun.

The cause of the August shower is similar to that of the November shower, but with an important difference The meteors causing the August show er are not so much bunched as those of the November shower, and are strewn out all along their path about the sun. The result is that each year when the earth's orbit and meteor's cross each other, which happens about August 10, here is a display of shooting stars. A False Impression.

Though they are called shooting stars-veryone knows that these bodies are not the stars that are falling. The fixed stars are at enormous distances away from us, and most of them are millions of times bigger than our earth. if millions of meteors reach the earth every 24 hours, the earth must be slow-ly setling heavier. The increased weight would show its effect on the earth by making it rotate slower on its axis, and the day as a result becoming longer. Since the first recorded astro nomical observation the earth has not changed the length of its day by as such as the one-hundredth part of a single second, and hence, we must onclude that the average shooting star is very small, most of them not weighng more than a single grain, with an occasional one as big as an apple or

The earth's atmosphere is so dense that a great amount of friction is caused by the particle moving, and in its quick flight the energy of motion is trans-ferred to heat. The result is that the small particle of matter becomes so ot that it glows and becomes luminous The meteor is generally consumed dur-ing its short flight. Once in a while the meteor is so large that it is not all burnt up, and a portion of it, fused on the surface, and scarred by its flight.

reaches the earth as a meteorite.

Photos of Meteors.

Photographs of meteors are often obtained by the astronomer, generally accident, when one crosses the field of the camera, while it is being exposed for some other purpose. Very ofen such photographs show a sudden brightening, then a dimming of the light, and a second brightening, as is seen on a splendid photograph taken by professor Barnard, showing a nebu-

Evidently the meteors in passing through the earth's atmosphere must each other. However, as these parallel morning star is drawing closer collection, having specimens of over ground of the stars, their apparent po-ninety per cent of all known meteorites, sitions are changed. As perspective sky for a year, but sets less than an sitions are changed. As perspective sky for a year, but sets less than an makes the two tracks of a railroad hour after the sun, and is now very appear to meet in a point, so all the faint. appear to meet in a point, so all the paths in a meteoric shower appear to radiate from a point in the sky. This point is called the radiant, and the shower takes its name from the constellation in which the radiant is found. It is at quadrature, or 90 degrees from the constellation of Lyra, and hence they are known as Lyraids.

In the constellation of Lyra, and hence they are known as Lyraids.

they are known as Lyraids. There seems to be no difference ex-cept size between these meteorites and Map and noting on them the paths of its rings show well in a small telescope better acquainted with the heavens, the month about 10 p. m.

la in the constellation of Cygnus and and learning the names of the bright stars and constellations.

The Planets for August the earth's atmosphere must
paths which are parallel to interesting during August. Venus as a lines are projected back to the back- sun, and rises but a short time before

they are known as Lyraids.

Amateurs may do very interesting bright evening star in the southwest.

Saturn is becoming brighter each day.

ot far away from the bright star Vega. a good telescope one can recognize it by At the same time a splendid opportunity its disk, differing thereby from a star. will be further afforded of becoming It is on the meridian at the middle of

SUMMER RESORT FOR | fect summer climate are all there; also THE SIERRA MADRES

Mexico North Western Railway Officials Plan to Establish Resort.

Chihushua, Mexico, July 30 .- Thomas B. Ryan, general traffic manager of North Western Railroad company, states that he received orlers some time ago from rice president Kenna, of the company, to select a suitable site in the Sierra Madres convenient to the line of railway for a summer resort. Mr. Ryan also states that the only reason such a site had not been selected was that he had not yet had

Vice president Kenna was quite encottage for himself at the site selected. There is no doubt that such a resort vill be started before next summer so that the people of northern Mexico can find accommodations during the hot

Summer months of 1911,

Between the railway company's two Janos, umber towns of Madera and Pearson. about 100 miles from here there are has gone to Berkley, Cal., to join her probably 50 beautiful sites for a sum- husband who is attending mer resort, which could be selected. It school there. They are expected home in a vast stretch of pine covered moun- in about two weeks. tains and valleys, streams, fish and game | Summer school for the Junrez stake and ancient cliff dwellings and a per-'cache

difficult of access, are hot springs. If no unlooked for delays occur, the Mexico North Western rallway company will have its line between Terrazas and Madera completed some time next spring. This line will connect the El Pase and Chihuahua divisions of the company's system, thus making one of the most beautiful sections of the Sierra Madres easy of acress both by way of this city and El Paso, Tex.

MORMON TEACHERS WILL HOLD SUMMER SCHOOL Colonia Dublan, Mexico, July 30. Timothy Jones and wife have returned

Vernon Jones has been called on mission. He will go to the same parts where his father traveled in Texas. The baby of Arwell Pierce, of Cludad thuslastic on the project and wants Juarez, is suffering from summer complans made for such a resort and for a plaint. As soon as it is able to travel they will take it to Cloudcroft.

Mr. Riggs has returned from Douglas, Ariz., and brought with him a span of mules and a light wagon. George Romney is aiding his brother, Gaskel to build some new houses at

Mrs. Lydia Romney, of Colonia Juarez,

ers will convene about August 15.

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THINKS OF OSTEOPATHY AND ALSO THE GOVERNORS OF SEVERAL STATES WHO HAVE SIGNED BILLS MAKING IT LEGAL, IN SPITE OF THE BITTER OPPOSITION OF THE MEDICAL ASSOCIATIONS.

"Osteopathy holds haurels for the stu-dent, and for the practitioner, not equaled, in my judgment, in any other field on earth. Osteopathy is the opportunity of

an epoch!" HON, J. CROUT.

Governor of Vermont, when the Os-teopathic bill passed the Legislature in his State, said: "Osteopathy has been tried by the leading men and women of our State and they all testify to its merit. We will

give it a chance." HON, L. M. SHAW, Governor of Iowa, who signed the Osteopathic bill in that State, said: "I have heard a great deal about os-teopathy and talked with a great many who have taken Osteopathic treatment and I am fully convinced that it is a rational system of healing." HON. B. McMil.LAN,

Governor of Tennessee, who signed the Osteopathic bill in that State, said:

"The bill devaltzing Osteopathy in this State passed both Houses almost unanimously. It is one of the greatest discovering of the time." GOV. EDWIN C. SMITH,

Governor of Vermont, is an ardent admirer of Osteopathy. "My experience with Osteopathy has been very gratifying. It should be legalized in every State in the Union."
OPIE RIED.

America's well known writer and editor of Carter's Monthly, "My attention was first called to Osteopathy of a friend whose wife was cured of insanity. Closely following, I knew of a prominent business man who was cured of paralysis. It regenerated me. I have added reading to observation and I honestly believe it to be one of the most wonderful discoveries of any age. I would recommend any man, not too old, who is dissatisfied with his pro-fession. I would advise every young physician to study Osteopathy." EX-GOV. WM. F. DILLINGHAM,

Of Vermont, was an active advocate for legislative action. He said:

"I have employed practitioners of that ! school to treat members of my family and have been particularly pleased with results. I firmly believe that this practice is based on scientific principles, and

advance in medicine. I know that it is doing a vast amount of good in relieving suffering and deformity that is not amenable to benefit from drug medicine." HON, T. A. BRIGGS,

to sign the bill legalizing Osteopathy in his State, said:

"Osteopathy has helped me. It has also done good in my family and will hurt no one. The bill has passed both Houses and I will sign it."

HON. JOHN P. ALTGELD,

Governor of Illinois, after taking several months' treatment and having his wife treated, said:
"I am indebted to Osteopathy for great good to both Mrs. Aitgeld and myself. When prescriptions and drugs were as ineffectual as empty words it came." as ineffectual as empty words it came

State, said: teopathy will reach and cure many chronic troubles that medicine would have little or no effect on. This is testified to by men and women in the highest walks of life and from all over the State

is an advance on medical science. HON. H. F. PINGREE,

Governor of Michigan, who signed the bill legalizing Osteopathy in that State, said after a thorough and careful official investigation: "Osteopathy is a science entitled to all respect and confidence as a distinct

to our rescue and did what other things had failed to do. Honor those to whom honor is due." HON, JOHN R. TANNER, Governor of Illinois, who signed the

bill legalizing Ostcopathy in that The State Medical Board has been fighting the Osteopaths long enough. There is no doubt in my mind that Os-

of Clinois." MRS. W. M. SPRINGER,

Wife of Congressman Springer-afterwards Chief Justice of the Court | cate.

" of Appeals, Indian Territory: "I can never say enough in praise of Osteopathy. It relieved me from unbearable invalidism. I have seen it do the same for scores of others. I believed before I tried it that it was a scientific method *** and now I am convinced that Osteopathy is rational, scientific and wonderful. It will be the greatest bless-

ing to the world."
NOT MASSAGE OR SWEDISH
MOVEMENT.

No; it is not massage; it is not Christian Science; it is not Swedish movement. It may use some movements similar to other systems, but is based upon a different theory and is essentially different. Its practitioners are trained to Governor of North Dakota, when importuned by the Medical Board not to sign the bill legalizing Osteopathy diagnose, treats the case, that the Doc-

tor, who does not know how to trest has diagnosed. That is one difference. The Osteopath seeks the cause at some particular point, the masseur, or Swedish operator, gives a general stimu-lating treatment, and does not recognize the possibility of spinal lesions, or tain other mal-adjustments which the possibility of spinal lesions, or cer-tain other mal-adjustments which the Osteopath has been trained to find and

HOW WE TREAT. The treatment is chiefly by means of manipulation; but diet, hot and cold applications, antiseptics, exercises, careful nursing, and such hygienic means as are available to all schools of practice are used. There is no exposure of the body, except in such examinations as all schools of practice find necessary to locate dis-

eased conditions NOT TOO SEVERE. The Osteopath adjusts his treatment to the state of his patient as every other physician does. Very young children, feeble or aged people may be treated, if with proper care, with great benefit. A patient may feel worse after a treatment, yet be benefitted in the long run. He may feel worse, and, something else way he responsible; but an Osteopathio may be responsible; but an Osteopathic

THE SUMMER TIME

Is the best time to take Osteopathic treatment. Spine is more relaxed. The A. T. Still Osteopathic Infirmary has never in its history had such a run as now in summer. Because they have been curing the Blind, Deaf, Bronchial, and Lung Troubles, Paralysis, Liver Troubles and Indigestion, Bright's Disease, Blood Poison, Spinal Menengitis, Rheumatism and all manner of diseases by the score.

For it is just as easy to loosen the nerves to that old liver, lungs, kidneys, heart, stomach and make the blood take the stagnant blood out and heal them up again as it is to free the nerves to those blind eyes that we have cured so many of.

"For in the blood is the life of all Flesh" and there is no other way to make it circulate and reach the spot like Osteopathy. That is why we have cured six thousand and only



These four blind people were restored to sight by Dr. Ira W. Collins at Dr. A. T. Still Osteopathic Infirmary, by pushing the vertebra back and loosening the nerves to the eyes after sixteen specialists in Texas and California had failed on them, and the entire Medical Association of Texas had pronounced them hopeless when they met here in El Paso. It all shows you cannot push those vertebrae back and cure a person by poisoning them.

convincing and the evidence was so after awhile. For that is what killed disease makes, overwhelming that any unprejudiced E. H. Harriman, the railroad millionperson could not help but accept the aire. feet that Osteopathy is the only short route to relief in spinal meningitis. But in appendicitis it is just as easy to free the nerve to the appendix and force circulation there and it absorbs the stagnant blood and builds up cell life and heals it up, for it is the blood that must feed everything and there is no other way to heal diseases.

You can whip up the blood by taking mineral waters, but you will exhaust did in that case of old rusty nail in what little strength you have left in foot.

the German doctors in Austria told them it all came from rheumatism of All chronic diseases, such as cancers the spine and they realized the Osteo- and tuberculosis are unknown except paths could have cured him easily if where drugs are used. they had gone to them in time.

In blood poison it is so easy to free the nerve and let the blood carry the before it can stop the circulation. poison out of the system just like we

There is not half as much poison on

The barbarians in the Philippine islands who beat on tin pans and thus excite the circulation in the patient, cure have cured 6000 and only lost six paa much larger percent of their patients | tients. than drug doctors, for the after effect | Throw your prejudice aside and try

Rev. J. C. Roberts said when we cured the nerve to kidneys and it will help makes double the amount of poison to his son of spinal meningitis that it was you at first, but will cause a cancer be carried out of the system that the The heathens of India who worship

poisonous serpents have about the same His family was broken hearted when percent of losses that the American pois-

No matter what the disease is it must

first congest the nerve at the spine So it is impossible to have any dis-

ease without a congestion at the spine. Just feel your own spine and see for vourself. And these restored blind peoan old rusty nail as there is in a dose ple that all the medical doctors of of calomel. And the system often throws | Texas at their association meeting here the calomel out and the patient gets well in El Paso pronounced incurable proves in spite of the doctors, aithough they that all the poisons in the world only lose about 200 patients to every thou whip up the circulation for the time sand, while Osteopathy only loses one and make you worse afterwards, and that they never can push these vertebrae back by poisoning you.

That is why, as the records show, we

If. Harriman. of the drug is so deadly, because it it and it will do the rest.